

CLASSIFICATION: ENGINEERING TECHNICIAN II

Class Code: 4086-13

Date Established: 07-02-65

Occupational Code: 9-2-4

Date of Last Revision: 2-10-05

Exempt Status: Non-Exempt

BASIC PURPOSE: To perform technical engineering duties both in the field and in the laboratory by preparing charts and graphs, collecting field samples and making field notes and engineering computations.

CHARACTERISTIC DUTIES AND RESPONSIBILITIES:

- Performs engineering duties related to a variety of engineering projects, including verifying work to ensure compliance with established plans and specifications.
- Collects and reduces field data, as directed, in the form of tables, charts and graphs.
- Assists in the preparation and design of engineering plans.
- Collects field samples and conducts a variety of field or laboratory tests.
- Schedules work assignments for subordinate technical engineering staff.
- Assists in supervising technical engineering duties in a designated area, including field and laboratory testing, design, construction, and environmental studies.

DISTINGUISHING FACTORS:

Skill: Requires skill in recommending routine changes in standardized operating procedures OR in retrieving, compiling and reporting data according to established procedures OR in operating complex machines.

Knowledge: Requires understanding and using business or trades vocabulary or basic arithmetic to perform standard operating procedures.

Impact: Requires responsibility for contributing to immediate, ongoing agency objectives by facilitating the direct provision of services to the public or other state agencies. Errors at this level result in inaccurate reports or invalid test results and require significant investment of time and resources to detect.

Supervision: Requires partial supervision of other employees doing work which is related or similar to the supervisor, including assigning job duties, providing training, giving instructions and checking work.

Working Conditions: Requires performing regular job functions in an environment which includes exposure to continuous physical elements or a number of disagreeable working conditions with frequent exposure to minor injuries or health hazards.

Physical Demands: Requires medium work, including continuous strenuous activities such as frequent reaching, bending, or lifting as well as performing work activities which require fine manual dexterity or coordination in operating machines or equipment.

Communication: Requires explaining facts, interpreting situations, or advising individuals of alternative or appropriate courses of action. This level also requires interviewing or eliciting information from state employees or members of the general public.

Complexity: Requires a combination of job functions using minimal judgment to perform a variety of job tasks according to clearly prescribed standard practices and procedures.

Independent Action: Requires a range of choice in applying a number of technical or administrative policies under general direction and in making routine decisions or in recommending modifications in work procedures for approval by supervisor.

MINIMUM QUALIFICATIONS:

MINIMUM QUALIFICATIONS - DEPARTMENT OF TRANSPORTATION:

Education: Graduation from high school, G.E.D. or its equivalent.

Experience: Three years' experience as an Engineering Aide or Engineering Technician, at least one year of which shall have been at a level equivalent to Engineering Technician I.

OR

Education: Associate's degree from a recognized college or technical institute with a major study in engineering, landscape, architecture, forestry, horticulture, environmental studies, agronomy, geology, soil science or earth science.

Experience: One year's experience at a level equivalent to Engineering Technician I.

MINIMUM QUALIFICATIONS - DEPARTMENT OF ENVIRONMENTAL SERVICES:

Education: Graduation from high school, G.E.D. or its equivalent.

Experience: Three years' experience as an Engineering Aide or Engineering Technician, at least one year of which shall have been at a level equivalent to Engineering Technician I.

OR

Education: Associate's degree from a recognized college or technical institute with a major study in engineering, hydrology, geology, earth sciences, or environmental studies.

Experience: One year of experience at a level equivalent to Engineering Technician I.

License/Certification: Valid driver's license and access to transportation if required for performing engineering field work. Any additional license requirement must be stated on the supplemental job description and approved by the Division of Personnel prior to posting at the agency level.

RECOMMENDED WORK TRAITS: Considerable knowledge of fundamental engineering techniques including a working knowledge of trigonometry and algebra required to perform difficult mathematical computations. Considerable knowledge of material testing and highway design work. Some knowledge of environmental issues and regulations. Skill in the use of drafting, computing instruments, and testing equipment. Ability to make difficult drawings, tracings and technical computations. Ability to perform difficult laboratory tests, assume inspectional responsibilities, train and supervise subordinate personnel, and maintain accurate records. Ability to establish and maintain effective working relationships with other employees, federal authorities and the general public. Must be willing to maintain appearance appropriate to assigned duties and responsibilities as determined by the agency appointing authority.

DISCLAIMER STATEMENT: This class specification is descriptive of general duties and is not intended to list every specific function of this class title.